FIG. 1A

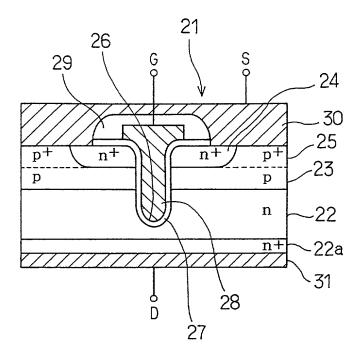
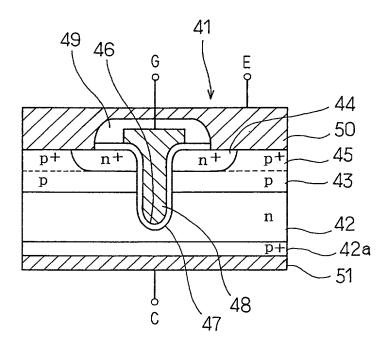


FIG. 1B



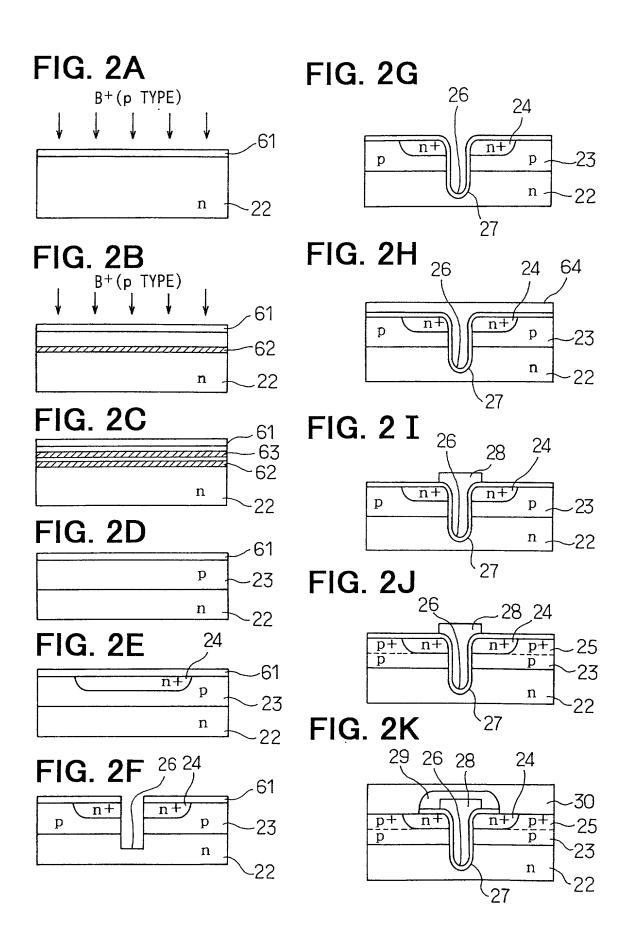


FIG. 3A

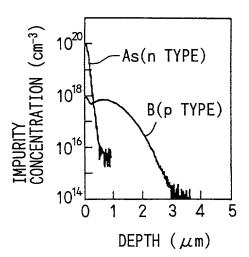


FIG. 3B

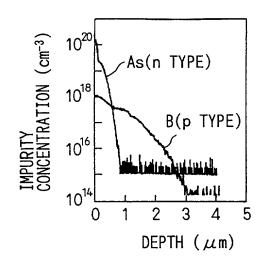


FIG. 4A

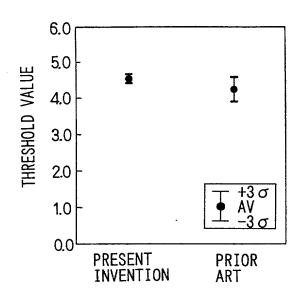


FIG. 4B

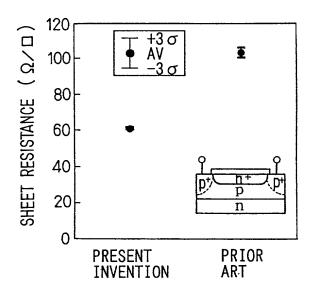


FIG. 5

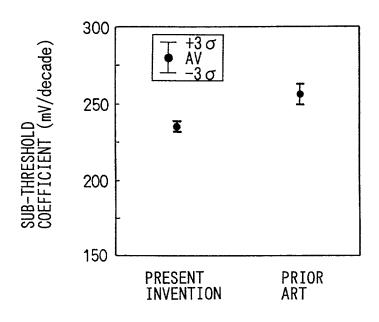


FIG. 6

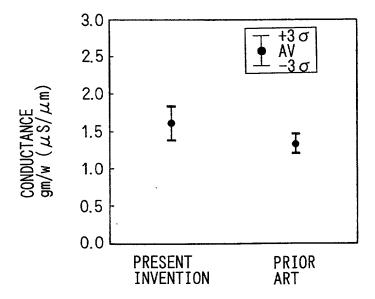


FIG. 7

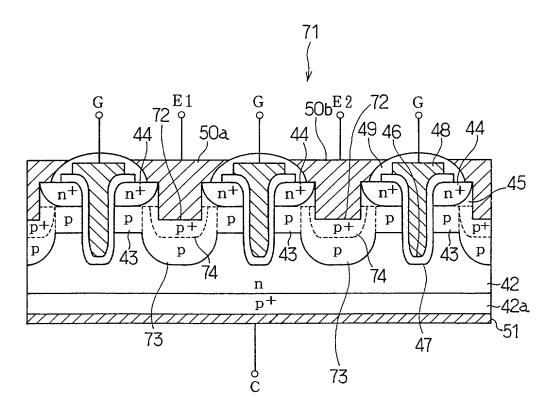


FIG. 8A

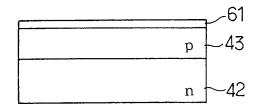
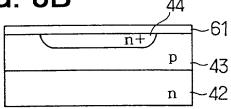


FIG. 8B



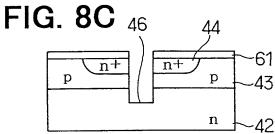


FIG. 8D 46

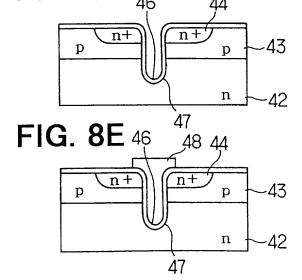


FIG. 8F

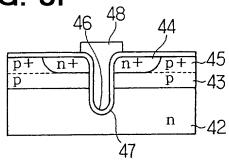


FIG. 8G

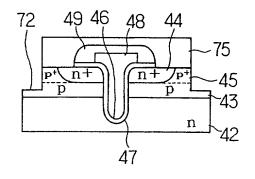


FIG. 9A

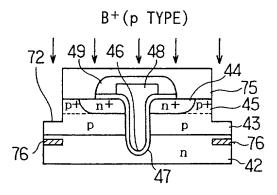


FIG. 9B

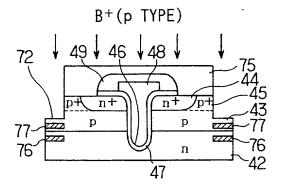


FIG. 9C

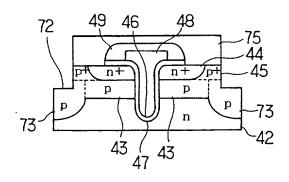


FIG. 9D

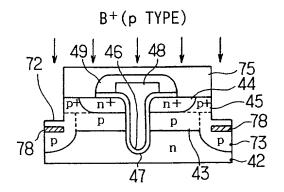


FIG. 9E

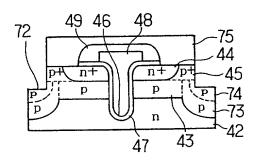
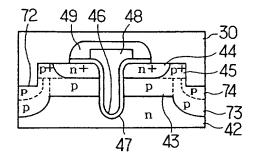
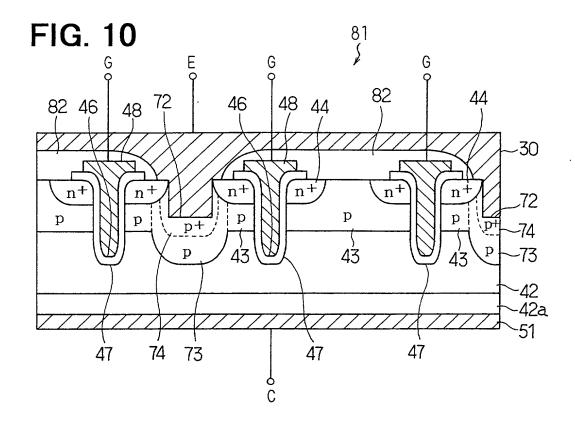
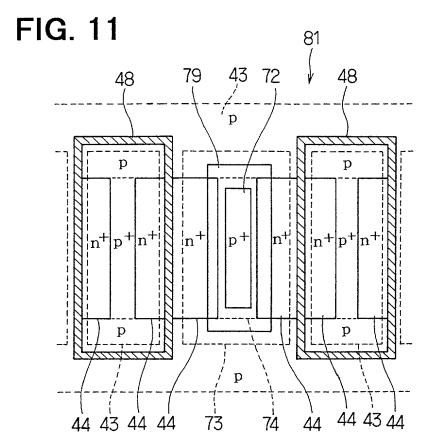
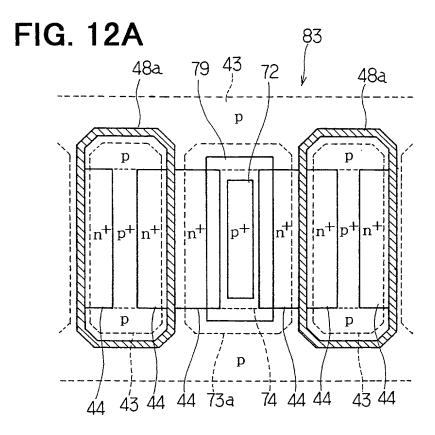


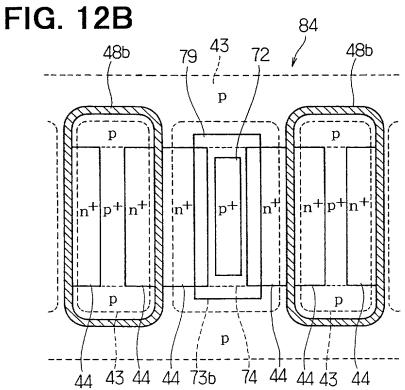
FIG. 9F

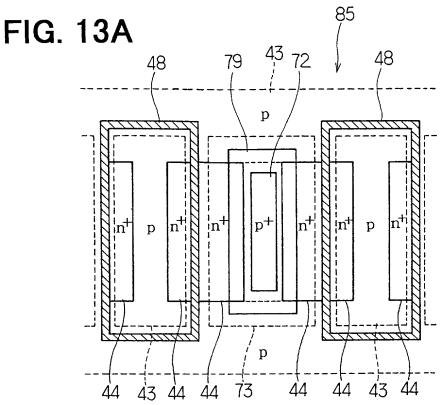












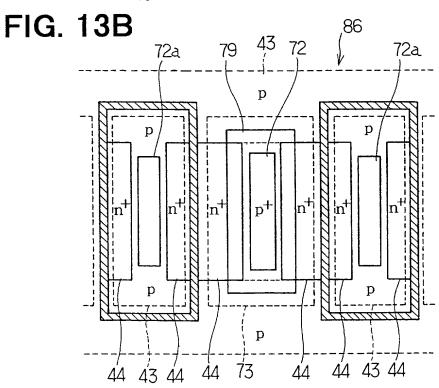


FIG. 14

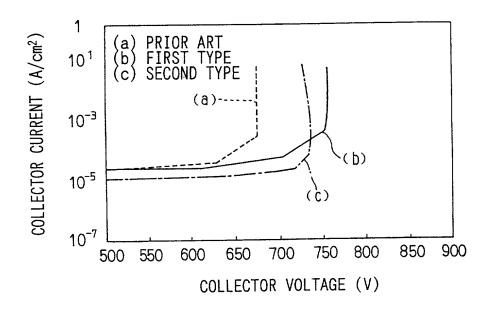
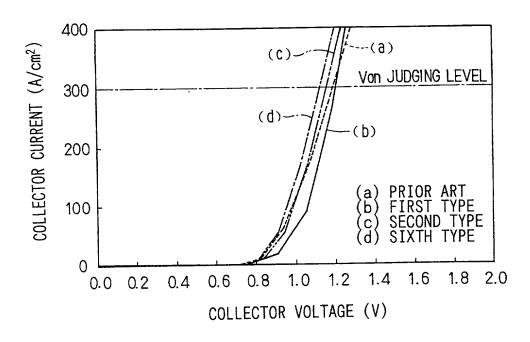


FIG. 16



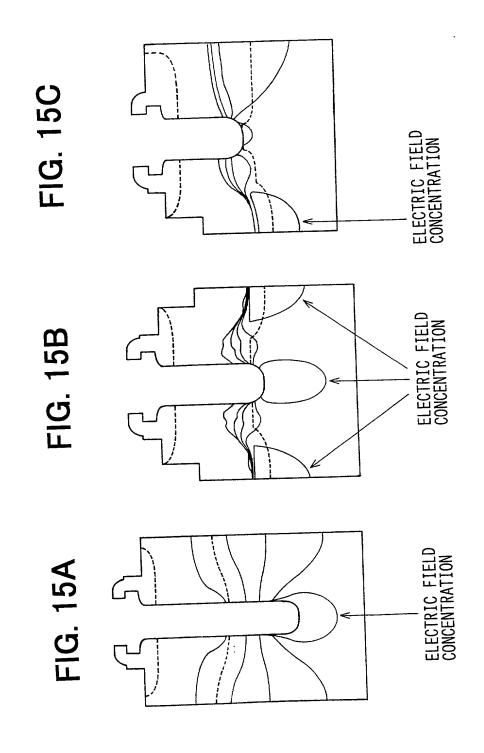


FIG. 17

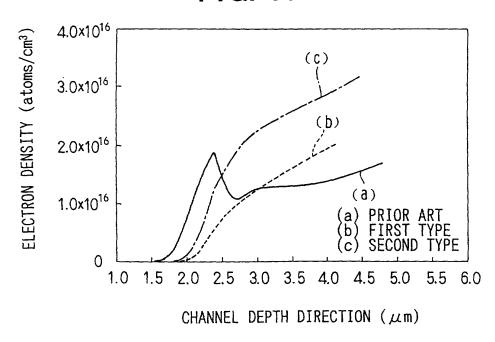


FIG. 19

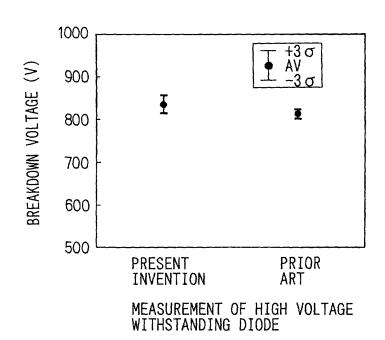
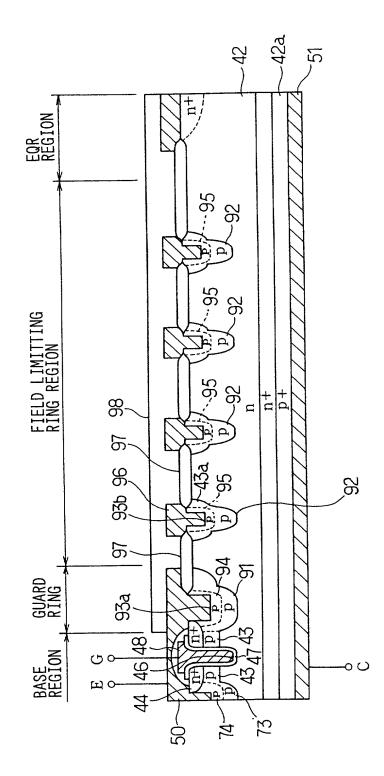


FIG. 18



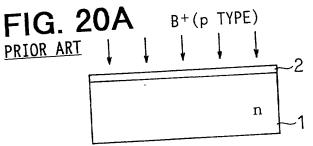


FIG. 20G

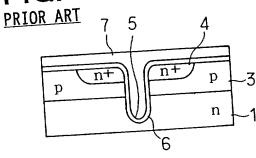


FIG. 20B



FIG. 20H

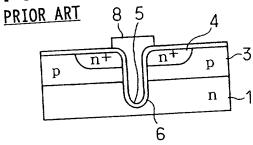


FIG. 20C

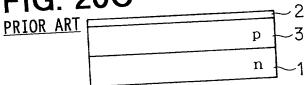


FIG. 20 I

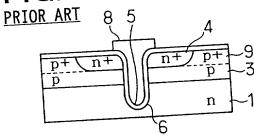
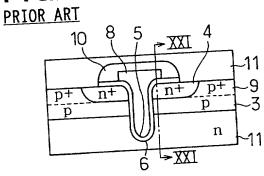


FIG. 20D PRIOR ART n+ р n

FIG. 20J



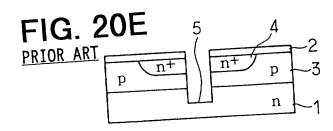
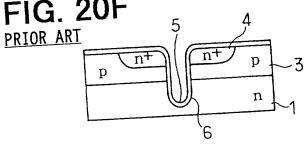


FIG. 20F



PRIOR ART

HIGHLY DOPED
EMITTER REGION

BASE
REGION

(CHANNEL)

(CHANNEL)

n

DEPTH

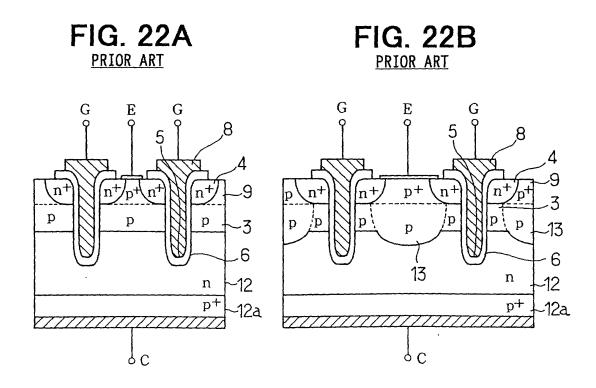


FIG. 23A PRIOR ART B+(p TYPE) 15 16 n 12

FIG. 23B

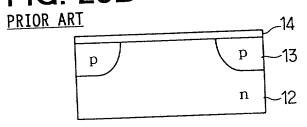


FIG. 23C

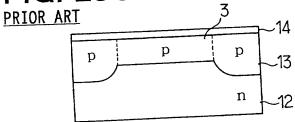


FIG. 23D

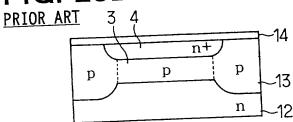


FIG. 23E

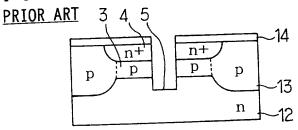


FIG. 23F

PRIOR ART

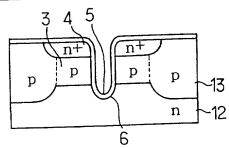


FIG. 23G

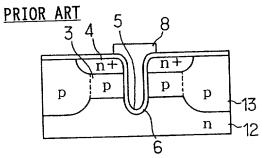


FIG. 23H

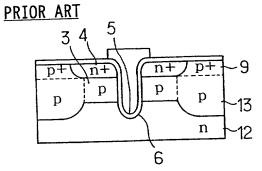


FIG. 23 I

PRIOR ART

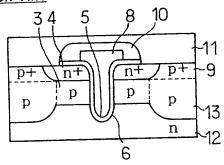


FIG. 24 PRIOR ARI

